

Product datasheet for RC222906L3

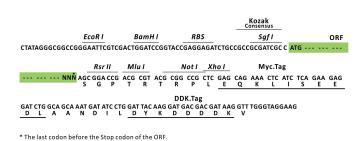
ADCY5 (NM_183357) Human Tagged Lenti ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	ADCY5 (NM_183357) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	ADCY5
Synonyms:	AC5; FDFM
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC222906).
Restriction Sites:	Sgfl-RsrII
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I ORF Rsr II GCG ATC GC ATG // NNN AGC GGA CCG



ACCN:

ORF Size:

NM_183357 3783 bp



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	ADCY5 (NM_183357) Human Tagged Lenti ORF Clone – RC222906L3
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Me	 thod: 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM 183357.2</u>
RefSeq Size:	6098 bp
RefSeq ORF:	3786 bp
Locus ID:	111
UniProt ID:	<u>095622</u>
Cytogenetics:	3q21.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Chemokine signaling pathway, Dilated cardiomyopathy, Gap junction, GnRH signaling pathway, Melanogenesis, Oocyte meiosis, Progesterone-mediated oocyte maturation, Purine metabolism, Vascular smooth muscle contraction
MW:	138.9 kDa

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Gene Summary:This gene encodes a member of the membrane-bound adenylyl cyclase enzymes. Adenylyl
cyclases mediate G protein-coupled receptor signaling through the synthesis of the second
messenger cAMP. Activity of the encoded protein is stimulated by the Gs alpha subunit of G
protein-coupled receptors and is inhibited by protein kinase A, calcium and Gi alpha subunits.
Single nucleotide polymorphisms in this gene may be associated with low birth weight and
type 2 diabetes. Alternatively spliced transcript variants that encode different isoforms have
been observed for this gene. [provided by RefSeq, Dec 2010]

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